FEDERAL GRANT OPPORTUNITIES

updated 10/15/10

new opportunities or changes highlighted

Open grants & deadlines:

- **FY 2009 Global Climate Change Mitigation Incentive Fund (GCCMIF)**
- **Federal Loan Guarantees for Projects that Employ Innovative Energy Efficiency, Renewable Energy, & Advanced Transmission & Distribution Technologies** *(September 14, 2009-August 24, 2010; November 13, 2009-December 31, 2010)*
- **Energy Production with Innovative Methods of Geothermal Heat Recovery** (Pre-application due October 1, 2010, Application due November 30,2010)
- **Fundamental Research Program for Industry/University Cooperative Research Centers (FRP)** (February 2, 2011)
- **Vocational Training and Education for Clean Energy (VOC TEC)** (October 27, 2010)
- **Proliferation Detection Research** (November 12, 2010)
- **Renewal-Supplemental Applications for the Office of Science Grants and Cooperative Agreements** (September 30, 2011)
- **The Nuclear Science and Security Consortium** (November 29, 2010)
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FY 2009 Global Climate Change Mitigation Incentive Fund (GCCMIF)

- Applications due: Rolling basis
- Visit http://www.eda.gov/ for additional information and for any programming changes
- GCCMIF established to strengthen the link between economic development and environmental quality
- GCCMIF finances projects that foster economic development by advancing the green economy in distressed communities
- Applications are competitive, based on the Economic Development Association's standard eligibility and distress criteria, investment policy guidelines, and funding priority considerations
- Projects must achieve the same job and capital investment outcomes as traditional EDA investments
- Project must be one of the following:
    - Renewable energy (wind, solar, biomass, and geothermal)
    - Energy efficiency
    - Reuse/Recycling/Restoration (reuse of a given product or production of a new or innovative product for recyclable materials; also includes ecosystem restoration)
    - Green building (new construction or renovation certified by USGBC in LEED or comparable certificate program
- Must result with outputs:
    - Development and/or manufacture of green end-product that furthers or contributes to sustainability and/or environmental quality (activity, item, plan, or program)
    - Greening of an existing function or process (investments that result in green enhancements to the resource, energy, water, and/or waste efficiency of an existing function or process)
    - Creation or renovation of a green building

ARRA - Federal Loan Guarantees for Projects that Employ Innovative Energy Efficiency, Renewable Energy, & Advanced Transmission & Distribution Technologies

Funding Opportunity Announcement (FOA) # DE-FOA-0000140

- Application due dates:
    - Parts I & II submission dates depend on rounds
    - Part I: September 14, 2009 – August 24, 2010
    - Part II: November 13, 2009 – December 31, 2010
- Submission of applications for loan guarantees under Title XVII of the Energy Policy Act of 2005 in support of debt financing for projects in the U.S. that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute new or significantly improved technologies that are not a commercial technology
- DOE will make up to $8.5 billion in loan guarantee authority available
- Despite the due dates, the solicitation will remain open until the aggregate $8.5 billion in loan guarantee authority is fully obligated
- Visit http://www.fedconnect.net/ to view the full FOA, and consult http://www.energy.gov/, http://www.whitehouse.gov/omb/ or http://www.recovery.gov/ for additional information

- Only 3 categories of projects that begin construction no later than 9/30/11 are eligible under Section 1705 of Title XVII and may have their credit subsidy costs covered by appropriated funds under the Recovery Act
    1. Renewable energy systems, including incremental hydropower, that generate electricity or thermal energy and facilities that manufacture related components
    2. Electric power transmission system projects, including upgrading projects
    3. Leading edge biofuel projects that will use technologies performing at the pilot or demonstration scale that the Secretary determines are likely to become commercial technologies and will produce transportation fuels that substantially reduce life-cycle greenhouse gas emissions compared to other transportation fuels
- Eligible projects in categories listed below and which fall within 1 of the 2 distinct project types described:
    1. Alternative fuel vehicles
    2. Biomass
    3. Efficient electricity transmission, distribution, and storage
    4. Energy efficient building technologies and applications
    5. Geothermal
    6. Hydrogen and fuel cell technologies
    7. Energy efficiency projects
    8. Solar
    9. Wind & hydropower

- Technology categories for 1705 eligible projects are limited to renewable energy systems projects, electric power transmission systems projects, and leading edge biofuels projects
- Per DOE, eligible projects under categories 1, 4, 6, & 7 generally do not constitute 1705 eligible projects for which the credit subsidy costs may be paid for out of funds appropriated under the Recovery Act to pay for the costs of loan guarantee issued under the Section 1705 program
- Project types: manufacturing or stand-alone; see FOA for list of primary goals and objectives for these project types

Fundamental Research Program for Industry/University Cooperative Research Centers (FRP)

Sol# 10-601

- Responses due February 2, 2011.
- For more info, contact Rathindra DasGupta at rdasgupt@nsf.gov or go to: http://www.nsf.gov/pubs/2010/nsf10601/nsf10601.htm
- Areas of interest include, but are not limited to: Energy and the Environment; and Advanced Manufacturing.
- $1.6 million expected to be available, up to 10 awards anticipated. The average award size is expected to range from $50,000 up to $200,000.
    - Full Proposals submitted via FastLane: NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) Guidelines apply. The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg.
    - Full Proposals submitted via Grants.gov: NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines apply (Note: The NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=grantsgovguide)
- Eligibility is based on center performance: Fundamental research opportunities under this solicitation are available for I/UCRCs that meet the criteria as outlined in the current *Industry/University Cooperative Research Centers Program (I/UCRC)* solicitation. This opportunity requires that centers submitting fundamental research proposals meet the following conditions for eligibility:
    - Maintain sufficient industrial memberships to meet minimum program requirements,
    - Engage graduate students in center research projects,
    - Actively engage industry with a minimum of two Industry Advisory Board meetings annually, and
    - Disseminate current and accurate information to the public about their center via the NSF web site. NSF directory listings must be current and accurate by the supplement deadline date. Updates can be sent to the I/UCRC program director if needed.
- Eligibility for industry-defined fundamental research option: Centers seeking to apply for additional funding as permitted under the industry-defined fundamental research option must meet the following conditions for eligibility:
    - A letter from the Industry Advisory Board (IAB) must accompany the proposal.
    - The IAB letter must confirm that the IAB was actively engaged in defining the fundamental research project.
    - Only industry I/UCRC members may participate in an industry-defined research project.
    - Industry-participation must enable the center to extend its fundamental research project portfolio into areas that might not otherwise be researched.
- Each proposal must include a letter(s) from the participating industry partner(s) detailing measurable industry collaboration (degree and extent to which the industry will be involved with the proposed research). Proposals not meeting this requirement will be returned without review as being non-responsive.

- Description: The National Science Foundation encourages the submission of industry-defined fundamental research proposals from NSF Industry/University Cooperative Research Centers (I/UCRC). Industry-defined fundamental research broadens the scientific and engineering understanding beyond the more specific applied research interests of the industries traditionally served by the I/UCRC. Industry participation extends the scope and horizon of center research projects so as to drive innovation with industrially relevant fundamental research projects.

Vocational Training and Education for Clean Energy (VOC TEC)

Funding Opportunity Number: RFA-OAA-10-000011

- Closing Date for Applications: Oct 27, 2010
- Funding Instrument Type: Cooperative Agreement
- Expected Number of Awards: 1
- Estimated Total Program Funding:
- Award Ceiling: $10,000,000
- CFDA Number(s): 98.001 -- USAID Foreign Assistance for Programs Overseas
- Cost Sharing or Matching Requirement: Yes
- Eligible Applicants: Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"
- Description: USAID intends to award a worldwide Leader with Associate (LWA) Cooperative Agreement for the VOCational Training and Education for Clean energy, or VOC TEC. The purpose of this program is to bolster the capacity of local stakeholders to sustain renewable energy investments, primarily in decentralized clean energy technologies and hybrid renewable energy-hydrocarbon systems. The focus of the program will be on distributed energy systems, specifically wind, solar PV, micro-hydro, and hybrid energy systems utilizing any of these three technologies along with fossil-fueled generators. Emphasis will be on developing local capacity to assemble, design, install, operate, and maintain facility-specific or community-level micro-grid systems. The LWA agreement may be with a single institution or with a consortium of institutions. USAID estimates that the USAID/EGAT Energy Team contribution to this agreement will total approximately $3 million dollars over a five-year period from approximately FY2010 to FY2015. USAID anticipates the total ceiling will be $10 million ($3 million to the Leader Award and $7 million towards the Associate Awards).
- For additional information go to www.grants.gov

Proliferation Detection Research

- Funding Opportunity Number: DE-FOA-0000400
- Closing Date for Applications: Nov 12, 2010
- Expected Number of Awards: 15
- Estimated Total Program Funding: $10,000,000
- Award Ceiling: $300,000
- Award Floor: $200,000
- Registration Requirements
    - Applicants must obtain a DUNS number. http://fedgov.dnb.com/webform
    - Applicants must register with the CCR. http://www.ccr.gov/
    - Applicants must register with Grants.gov. http://grants.gov/
    - Applicants must register with FedConnect. www.fedconnect.net
- The U.S. Department of Energy (DOE), National Nuclear Security Administrations (NNSA) Office of Nonproliferation and Verification Research and Development (NA-22) is soliciting applications for the research and development (R&D) needs described herein.
- The NNSA/NA-22, has the responsibility to sponsor R&D activities to improve U.S. National capabilities to detect and monitor indicators of foreign nuclear weapons programs. NA-22 sponsors research in Radiation Sensors and Advanced Materials, Nuclear Forensics, Global Safeguards, Remote Sensing, Radiological Replacement Sources, and Simulation, Modeling and Algorithms, amongst other areas.
- Eligibility for award is restricted to universities as authorized in Section 313 of the Omnibus Appropriations Act of 2009.
    - Each university selected for award will be the lead organization and will be held responsible for managing the entire scope, schedule and cost of the project, to include all reporting.
    - Another restriction imposed in accordance with 10 CFR 600.6(b) is end-users who are directly supported under the PDP11 program shall be restricted to U.S. citizens. For the purpose of this program an end-user is any individual whose services and/or position is supported by direct funding under this program.

Research is being sought in the following topic areas:

- Topic 1: Radiation Sensors and Advanced Materials Research;
- Topic 2: Nuclear Forensics;
- Topic 3: Remote Sensing;
- Topic 4: Radiological Replacement Sources;
- Topic 5: Global Safeguards; and
- Topic 6: Simulation, Algorithms and Modeling

Renewal-Supplemental Applications for the Office of Science Grants and Cooperative Agreements

- Funding Opportunity Number: DE-FOA-0000412
- For additional information go to www.grants.gov
- Creation Date: Oct 12, 2010
- Closing Date for Applications: Sep 30, 2011
- Estimated Total Program Funding: $800,000,000
    - No Floor or Ceiling: The number of awards is subject to availability of FY 2011 funds.
    - Cost Sharing Not Required
- Eligible Applicants: All types of applicants are eligible to apply except other Federal agencies, Federally Funded Research and Development Center (FFRDC) Contractors, and non-profit organizations described in section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995.
- Summary: The Office of Science of the Department of Energy hereby announces its continuing interest in receiving grant applications for support of work in the following program areas: Advanced Scientific Computing Research, Basic Energy Sciences, Biological and Environmental Research, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, and Workforce Development for Teachers and Scientists. On September 3, 1992, DOE published in the Federal Register the Office of Energy Research Financial Assistance Program (now called the Office of Science Financial Assistance Program), 10 CFR Part 605, Final Rule, which contained a solicitation for this program. Information about submission of applications, eligibility, limitations, evaluation and selection processes and other policies and procedures are specified in 10 CFR Part 605.
- Research opportunities exist in the following Office of Science research programs and subprograms. Additional details, websites, and technical points of contact are provided in the materials that follow.

    1. Advanced Scientific Computing Research (ASCR)
        (a) Applied Mathematics
        (b) Computer Science
        (c) Computational Partnerships
        (d) Network Environment Research
    2. Basic Energy Sciences (BES)
        (a) Materials Chemistry
        (b) Biomolecular Materials
        (c) Synthesis and Processing Science
        (d) Experimental Condensed Matter Physics
        (e) Theoretical Condensed Matter Physics
        (f) Physical Behavior of Materials
        (g) Mechanical Behavior and Radiation Effects
        (h) X-ray Scattering
        (i) Neutron Scattering
        (j) Electron and Scanning Probe Microscopies
        (k) Atomic, Molecular, and Optical Sciences
        (l) Gas Phase Chemical Physics
        (m) Computation and Theoretical Chemistry
        (n) Condensed Phase and Interfacial Molecular Science (CPIMS)
        (o) Catalysis Science
        (p) Separations and Analysis

(q) Heavy Element Chemistry
(r) Geosciences Research
(s) Solar Photochemistry
(t) Photosynthetic Systems
(u) Physical Biosciences
(v) BES Accelerator and Detector Research

3. Biological and Environmental Research (BER)
    (a) Biological Systems Science
    (b) Climate and Environmental Sciences
4. Fusion Energy Sciences (FES)
    (a) FES Science and Facility Operations
    (b) FES Enabling Research and Development
5. High Energy Physics (HEP)
    (a) Experimental High Energy Physics Research
    (b) Theoretical High Energy Physics Research
    (c) HEP Advanced Technology Research and Development
6. Nuclear Physics (NP)
    (a) Medium Energy Nuclear Physics
    (b) Heavy Ion Nuclear Physics
    (c) Low Energy Nuclear Physics
    (d) Nuclear Theory (including the Nuclear Data subprogram)
    (e) Isotope Development and Production for Research and Applications
    (f) Accelerator Research and Development for Current and Future Nuclear Physics Facilities
7. Workforce Development for Teachers and Scientists (WDTS)

THE NUCLEAR SCIENCE AND SECURITY CONSORTIUM

- Funding Opportunity Number: DE-FOA-0000365
- For additional Information go to www.grants.gov
- Closing Date for Applications: Nov 29, 2010
- Estimated Total Program Funding: $25,000,000
    - Award Ceiling: $25,000,000
    - Expected Number of Awards: 1
    - Approximately a total of $5 million a year is expected to be available for one or more awards under this announcement, contingent upon the availability of appropriated funds.
    - No Cost Sharing required
- Eligible Applicants: In accordance with 10 CFR 600.6(b), eligibility for award is restricted to universities as authorized in Section 313 of the Omnibus Appropriations Act of 2009. The university selected for award will be the lead organization and will be held responsible for managing the entire scope, schedule and cost of the project, to include all reporting.
- Federally Funded Research and Development Center (FFRDC) Contractors. FFRDC contractors, such as National Laboratories, may be proposed as a team member or subcontractor on another entity's application.
- Summary: The intent of this Funding Opportunity Announcement (FOA) is to award a five year cooperative agreement to a consortium of accredited U.S. Colleges and Universities to allow them to receive and administer faculty and student research fellowship and scholarship funding awarded by the U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA), Office of Nonproliferation and Verification Research and Development (NA-22).
- NA-22 proposes to establish a program in nuclear science and engineering, including nuclear security, to provide an effective source of innovation and highly trained engineers and scientists. The program addresses the pressing shortfalls in trained professionals capable of supporting crucial nuclear nonproliferation missions such as nuclear forensics and international safeguards.
- Goals of the NSSC are to:
    - Support multiyear research projects which are of a basic or fundamental nature that do not necessarily align with programmatic missions of DOE/NNSA but are critical to maintaining the discipline of nuclear science and security.
    - Achieve the congressional goals of the IUP of supporting the continued development of the nuclear engineering and science discipline.
    - Enable collaborative research relationships between universities, the National laboratories, and other government agencies.
    - Transition technology from universities to National Laboratories.
    - Motivate talented researchers toward careers in nuclear security applications.
- The NSSC may support:
    - Multi-year research grants for research projects which are of a basic or fundamental nature that do not necessarily align directly with NNSA's programmatic missions, but which are critical to maintaining the discipline of nuclear science and engineering. Research projects are considered to be of a basic or fundamental nature if they are directed solely toward increasing knowledge or understanding in nuclear science and engineering rather than the exploitation of specific scientific discoveries or improvements in technology for the development of new materials, devices, methods, or processes;

- Graduate and post-doctoral basic research fellowships relating to nuclear science and engineering, including nonproliferation research, at National Laboratories;
- Support undergraduate basic research scholarships and internships and graduate research fellowships relating to nuclear science and engineering;
- Support undergraduate, graduate, and post-graduate students within the consortia to intern at any National Laboratory performing nonproliferation basic research and development. This can be in a collaborative environment with a National Laboratory or utilizing National Laboratory personnel in an adjunct faculty role;
- Create early-career professorial fellowships relating to nuclear science and engineering to include research support funds;
- Improving university and college infrastructures for conducting basic research and development relating to nuclear science and engineering;
- Incorporating outcomes of sponsored research into continuous nuclear science and engineering expertise development improvement.